

DPP4 1MKTFWKVLGGILC....AAALVT
 DPRP1 1 MAAAMETEQLGVETFEFADCEENIESQDRPKLEPFYVERYSWSQLKKLADTRKYHGYMM
 DPRP2 1MATGTPTADRGDAAATDDPAARFQVQKHSWDGLRSLIHGSRKYSGLHIV
 DPRP3 1MNOTASVSHIKCQPSKTIKELGSNSPPQRNWKGLAIALLLVILVVC

DPP4 20 HITVPVVLNKGTDATADSRKTYTLTD...YLKN...TYRLKLYSIRWISDHEYLMKQEN
 DPRP1 61 AKAPHDEMFVKRNDPDGPHSDRIYYLAMSGENRENTLEYSEIPKTNRAAVLMLSWKPLL
 DPRP2 50 NKAPHDEQFVQKTDDESGPHSHRIYYLCMPYGSRENSLLYSEIPKVKRKEALLLSWKQML
 DPRP3 48 LITMSVILLSP...DELTNSSETRLSLED...LERKD...FVLHD.PEARWINDTDVVKSEN

DPP4 75 .NILVFNAEYGNSS...VFLENSTFDEFGHSINDYSTISPDGQFILLEYNVYKQWRHSYT
 DPRP1 121 .DHFQATLDYCMYSREEELLRRKRIGTVGIASYDYHQG.SGTFLFOAGSGIYHVKGGGP
 DPRP2 110 .DHFQATPHHCYMSREEELLRRKRRLGVFGIITSYDFHSE.SGLFLFOASNSLEHCRDGGK
 DPRP3 101 GHVIKLNHETNATT....LLENTTFVTF..KASRHSVSPDLKYVLLAYDVKQIFHYSYT

DPP4 130 ASYDIYDLNK...ROLITEERIPNNTQVWTVSPVGHKLAYVWNNDIMVKIEPNLPSYRHT
 DPRP1 179 QGFTQOPLRP...NLVETSCPNIR.MDPKLCPADPDWIAFIHSNDIWNINIMTREERRLT
 DPRP2 168 NGEMVSPMKP...LELKTQCSGPR.MDPKICPADPAEFSFINNSDLWVANIEETGEERRLT
 DPRP3 155 ASYVIYNIHTREVWELNPPEVEDSVLQYAAWGVQGOQLIYIFENNINIQPDIKSSSLRLT

DPP4 187 WTG....KEDIITYNCITDWVYEEFVSAYSALWWSPNCTELAY....A..QENDTEVP
 DPRP1 235 YVHNELANMEEDARSAGVATFVLQEEFDRYSGYWWCPKAETTPS.CGKILRILYEENDES
 DPRP2 224 ECHQGLSNVLDDPKSAGVATFVIOEEFDRFTGYWWCPTASWECSEGLKTLRILYEEVDES
 DPRP3 215 SSG....KEEITFNCIADWLYEEELLHSHIAHWWSPDGERLAF.....LMINDSLVP

DPP4 235 LIEYSFYSDSLQYPKTVRVPPYPKAGAVNP..TKKEFVNNTDSLSSVTNATSIQTAPAS
 DPRP1 294 EVEITHVTSEMLETRADSEIRYPKTGTANPKMTFKMSEIMIDAEGRITDVIDKELTOPFE
 DPRP2 284 EVEITHVPSPALEERKTDSYRYPRTGSKNPKIALKLAEFQTDSSQKIMSTQEKELMOPFS
 DPRP3 263 TMVIPRFTGALYP..KGQOYPYPKAGQVNP..TKKLYVVNLYG....PTHTELMPPDS

DPP4 293 MLIG.DHYLCDDVTWATQ.ERISLOWLRRIQN.....
 DPRP1 354 ILFEGVEYIARAGWTPEGKYAWSILLDRSQTRLQHVLIISPELFIPVEDDVMERQRLIESV
 DPRP2 344 SLFPKVEYIARAGWTRDGKYAWAMELDRPQWLQVLVLLPPALFIESTENEEQRLASARAV
 DPRP3 314 FKSR.EYYITMVKVVSN.TKTVVRWLNRPQN.....

DPP4 322 .YSVMDICDYDESSGRWNCLVAROHTEMSTTGWVGRFRPSEPHFTLDGNSFYKIISNE..
 DPRP1 414 PDSVTPLIYYEETTDIWINTHDIFHVFQS.HEEELEFIFASECKTGFRHLYKITSILKE
 DPRP2 404 PRNVQPYVVYEEVTNWWINMHDIFYPPOSEGEDELCEFLRANECKTGFCFLYKITAFLKS
 DPRP3 343 .ISILTVCETTTG.....ACSKKYEMTSDTWLSQQNE.EPVFSRDGSKFEMTVPVKQ

FIG. 1A

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DPP4 379 E.....GMRHICYFOIDKK....DCTFITKGTWEVIG....TEAITSDEYLYYISNEYK
 DPRP1 473 SKYKRSSGGLPAPSDFKCPIK....EEIATTSGEWEVILGRHGSNTQVDEVRRLLVYFEGTK
 DPRP2 464 QGYDWSEPFSPGEDEFKCPK....EEIATTSGEWEVILGRHGSNTQVDEVRRLLVYFEGTK
 DPRP3 394 GR.....GEHHIAMFLIQSKSEQITVRHLSGNWEVHK....THAYDETTOKHYFLSTE

 DPP4 424 GMPGGENLYKIQLSDYTKVTCLSCELNPERCQYYSVSFSKEAKYQILKCSGPGLEPLYTLH
 DPRP1 529 DSPLEHHLYVVSYNPGEVTRLTDRGYSHSCCISQHCDFHISKYSNOKNP.HCVSLYKLS
 DPRP2 520 DTPLEHHLYVVSYEAGEIVRLITTPGESHSCSMSONFDMVSHYSSVSTP.PCVHMYKLS
 DPRP3 445 SSERGRQLYSASTEGLLNRQCISCNFMKEQCTHYFDASFSPMNQHFLLFCEGPRVPVVSLLH

 DPP4 484 SSVNDKGLRVLEDNSALDKMLQN..VOMPSKKLDFHILNETKFWYQMLPPHFDKSKKYP
 DPRP1 588 SPEDDPTCKTKETWATILDSAGPLPDYTPPEIFSFESTTIGETLYGMLYKPHDLQPGKKYP
 DPRP2 579 GPDDDLHKOPREWASMEEAACPPDYMPPEIFHFFHTRSDVRLYGMQYKPHALOPGKKHP
 DPRP3 505 STDNPAKYFHLESNSMLKEAILKKKIGKP..EIKILHIDDMELPQLSLPRDFMDRNOYA

 DPP4 542 LILLDVYAGPSCAKATVFR..LNWATYLASTENIIVASFDRGRSGYQCDKIMHAINRRIG
 DPRP1 648 TVLFHYGGPQVOLVNNFKGMYERLNTLASLGYVVVVVIDNRGSCHRGLKFEKAFKYKMG
 DPRP2 639 TVLFVYGGPQVOLVNNFKGMYERLNTLASLGYAVVVVIDGRGSCQRLKFEKAFKKNOMG
 DPRP3 563 LLLIMDEEPGGQLVTDKFF..IDWDSVLIDMDNVIVAREFDRGRSGYQGLKILQETRRREG

 DPP4 600 TFEEDQTEAARQFS.KMGFMONKRTAIWGSYGGYVTSBVLGSGSGVFRCCIAVAPVSR
 DPRP1 708 QHELEDQVEGLQYLASRYDFIDLDRVGIHGWSYGGYLSLMALMORSDFRVAIAGAPVTE
 DPRP2 699 QVELEDQVEGLQYFAEKYGFIDLSRVAIHGWSYGGYLSLMGLLHKPOVFRVAIAGAPVTY
 DPRP3 621 SVEMKDQITAVKELL.KLPYIDSKRLSIFGKGYGGYLSMILKSDEKLFKCCSVVAPHTD

 DPP4 659 WEYYDSVYTERYMCHPTPEDNLDHYRNSTVMSRAENFKQVEYILLTHGTADENVHFOQSAQ
 DPRP1 768 WEYYDTGYTERYMCHPDONEGGYLGSVAMQAEKFPSEPNRLLELHGFLDENVHFAHISI
 DPRP2 759 WMAYDTGYTERYMDYFENNCHGYEAGSVLHVKEKLPNEPNRLLELHGFLDENVHFEHINF
 DPRP3 680 LKLYASAFSERYTCMPSKEES..TYQAASVLHNHVGHLKEENTILLHGTADTKVHFQHSAE

 DPP4 719 LSKALVDVGVDQAMWYTDDEHGLASSTAHCHYTHMSHFILKCCFSLP.....
 DPRP1 828 LLSFLMRAGKPYDLQIYPERHSIRVPESGEHYELHLLHQLQENIGSRITAAIKVI.....
 DPRP2 819 LVSQLTRAGKPYQLQIYPERHSIRCPESGEHYEVTLLHFLQEYLL.....
 DPRP3 738 LEKHLERAGVNYTQMYPDEGHNVSEK.SKYHLYSTELKFFSDCLKEETSVLPQEPEEDE

FIG. 1B

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hDPRP1 1 MAAAMETEQLGVEIFETADCEEN.IESQDRPKLEPFYVERYSWSQLKKLLADTRKYHGYM
mDPRP1 1 MAAAMETEQLGVEIFETADCEEGNGESQDRPKLEPFYVERYSWSQLKKLLADTRKYHGYM

hDPRP1 60 MAKAPHDFMFVKRNDPDGPHSDRHYLLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL
mDPRP1 61 MAKAPHDFMFVKRTDPDRPHSDRMYYLAMSGENRENTLFYSEIPKTINRAAVLMLSWKPL

hDPRP1 120 LDLFQATLDYGMYSREEELLRERKRIGTVGIAASYDYHQGGSTFLFQAGSGIYHMKDGGPQ
mDPRP1 121 LDLFQATLDYGMYSREEELLRERKRIGTVGIAAYDYHPGGSTFLFQAGSGIYHMKDGGPH

hDPRP1 180 GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWSNIIVTREERRITYVHNE
mDPRP1 181 GFTQQPLRPNLVETSCPNIRMDPKLCPADPDWIAFIHSNDIWSNIIVTREERRITYVHNE

hDPRP1 240 LANMEEDARSAGVATFVLQEEFD RYSGYWCPKAETTPSGGKILRILYEENDESEVEIIH
mDPRP1 241 LANMEEDPRSAGVATFVLQEEFD RYSGYWCPQAERTTPSGGKILRILYEENDESEVEIIH

hDPRP1 300 VTSPMLETRRADSFYRYPKTGTANPKVTFKMSEIMIDAEGRIIDVIDKELMQPFEILFEGV
mDPRP1 301 VTSPMLETRRADSFYRYPKTGTANPKVTFKMSEIVVDAAGGIIDVIDKELMQPFEILFEGV

hDPRP1 360 EYIARAGWTPPEGKYAWSILLDRSQTHLQIVLISPELFIPVEDDVMEQRRLIESVPDSVTP
mDPRP1 361 EYIARAGWTPPEGKHAWSILLDRSQTHLQIVLISPELFIPVEDDAMDQRRLIESVPDSVTP

hDPRP1 420 LIIYEETTDIWINIHDIHFVFPQSHHEIEIEFIFASECKTGFRHLYKITSILKESKYKRSS
mDPRP1 421 LIIYEETTDIWINIHDIHFVFPQTHHEIEIEFIFASECKTGFRHLYKITSILKESKYKRSS

hDPRP1 480 GGLPAPSDFKCPIKEETITSGEWEVLGRHGSNIQVDEVRLVLYFEGTKDSPLEHHLYVV
mDPRP1 481 GGLPAPSDFKCPIKEETITSGEWEVLGRHGSNIWVDEARKLVLYFEGTKDSPLEHHLYVT

hDPRP1 540 SYVNPGEVTRLTDRGYSHSCCHSRHCDFFIISKYSNQKNPHCVSLYKLSSPEDDPTCKTKE
mDPRP1 541 SYANPGEVVRLTDRGYSHSCCHSRHCDFFIISKYSNQKNPHCVSLYKLSSPEDDPTVHKTE

hDPRP1 600 FWATILDSAGPLPDYTPPEIFSFESTTGFTLYGMLYKPHDLQPGKKYPTVLFIYGGPQVQ
mDPRP1 601 FWATILDSAGPLPDYTPPEIFSFESTTGFTLYGMLYKPHDLQPGKKYPTVLFIYGGPQVQ

hDPRP1 660 LVNNRFKGVKYFRLNTLASLGYVVVIDNRGSCHRGKLFEGAFKYKMGQIEIDDQVEGLQ
mDPRP1 661 LVNNRFKGVKYFRLNTLASLGYVVVIDNRGSCHRGKLFEGAFKYKMGQIEIDDQVEGLQ

hDPRP1 720 YLASRYDFIDLDRVGTHGWSYGGYLSLMALMQRSDIFRVAIAGAPVTLWIFYDTGYTERY
mDPRP1 721 YLASQYDFIDLDRVGTHGWSYGGYLSLMALMQRSDIFRVAIAGAPVTLWIFYDTGYTERY

hDPRP1 780 MGHPDQNEQGYYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAHTSILLSFLVRAGKPY
mDPRP1 781 MGHPDQNEQGYYLGSVAMQAEKFPSEPNRLLLLHGFLDENVHFAHTSILLSFLVRAGKPY

hDPRP1 840 DLQIYPQERHSIRVPESGEHYELHLLHYLQENLGSRIAALKVI
mDPRP1 841 DLQIYPQERHSIRVPESGEHYELHLLHYLQENLGSRIAALKVI

FIG. 2

TOTAL: 429,466

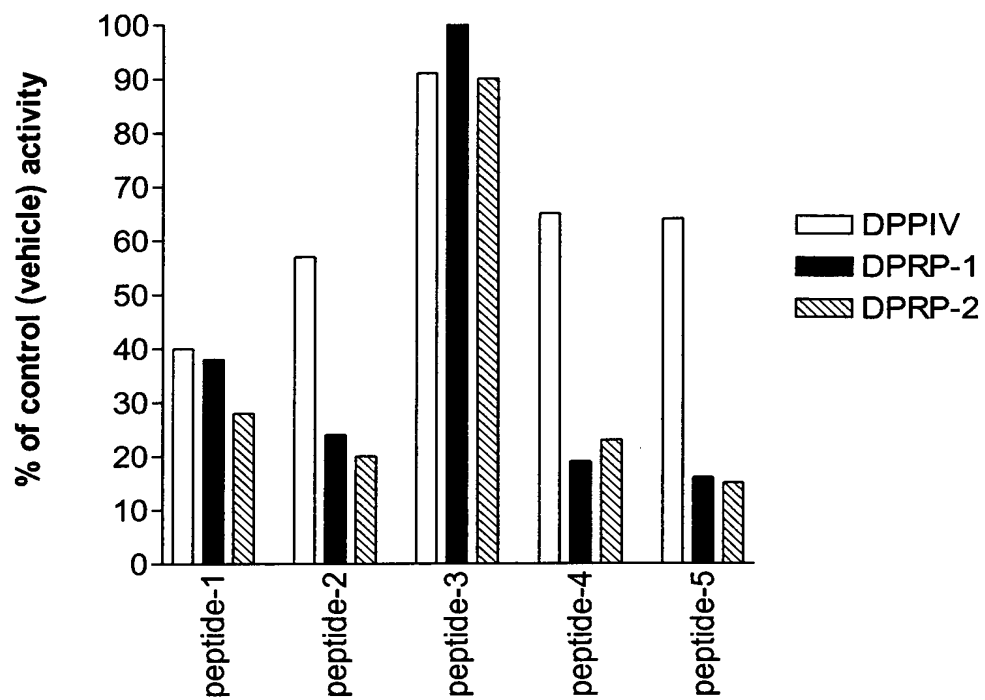


FIG. 3

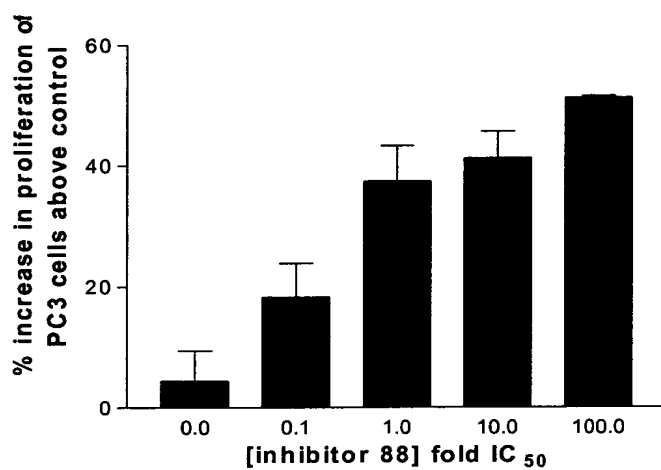


FIG. 4A

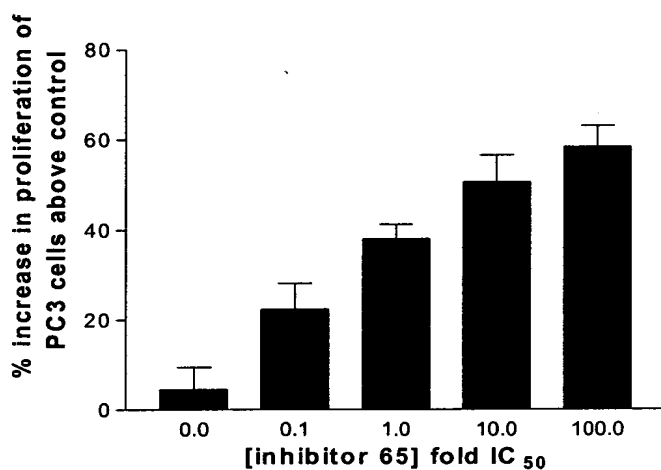


FIG. 4B

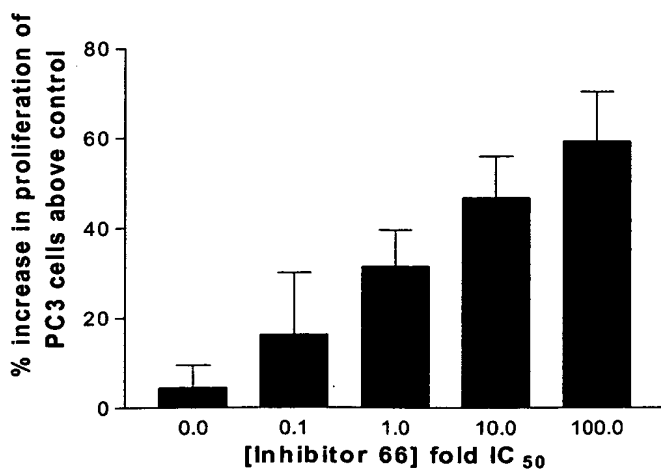


FIG. 4C

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